



Department of Energy

Richland Operations Office
P.O. Box 550
Richland, Washington 99352

95-1-EP-030

MAY 15 1999

Mr. David L. Lundstrom, Section Manager
Nuclear Waste Program
State of Washington
Department of Ecology
1315 W. 4th
Kennewick, Washington 99336

Mr. Douglas R. Sherwood
Hanford Project Manager
U.S. Environmental Protection Agency
712 Swift Boulevard, Suite 5
Richland, Washington 99352

Dear Messrs. Lundstrom and Sherwood:

THIRD QUARTERLY PROGRESS REPORT SUBMITTAL IN ACCORDANCE WITH THE FINAL JOINT
PERMIT FOR DANGEROUS WASTE RESEARCH, DEVELOPMENT, AND DEMONSTRATION
TREATMENT AND STORAGE ACTIVITY

The Final Joint Permit for Dangerous Waste Research, Development, and Demonstration Treatment and Storage Activity (RD&D Permit), Permit Number WA7 89000 8967, requires the submittal of a quarterly progress report. The enclosed Third Quarterly Progress Report, covering the period from January 1995 through March 1995, is hereby submitted.

The progress report states that the filtration system was operated for two test periods at the Liquid Effluent Retention Facility. It also states that no significant fouling problems occurred during these tests. The next filtration test should begin in June 1995.



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Messrs. Lundstrom and Sherwood

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Should you have any questions, please contact Mr. C. E. Clark, of RL, on (509) 376-3999 or Mr. G. L. Sinton, of my staff, on (509)-373-7939.

Sincerely,



Thomas K. Teynor, Director
Waste Programs Division

LWP:GLS

Enclosure

cc w/encl:
M. Bell, WHC
R. Bowman, WHC
B. Burke, CTUIR
D. Duncan, EPA
R. Jim, YIN
M. Jaraysi, Ecology
D. Powaukee, NPT
Administrative Record, H6-08

ENCLOSURE

FINAL JOINT PERMIT FOR DANGEROUS WASTE
RESEARCH, DEVELOPMENT, AND DEMONSTRATION
TREATMENT AND STORAGE ACTIVITY

Consisting of 3 pages,
including cover page

FINAL JOINT PERMIT FOR DANGEROUS WASTE
RESEARCH, DEVELOPMENT, AND DEMONSTRATION
TREATMENT AND STORAGE ACTIVITY

THIRD QUARTERLY PROGRESS REPORT
JANUARY - MARCH 1995

This third Quarterly Progress Report is submitted to the U.S. Environmental Protection Agency and the State of Washington Department of Ecology according to the Final Joint Permit for Dangerous Waste Research, Development, and Demonstration Treatment and Storage Activity (RD&D Permit), Permit Number WA7890008967, permit condition II.C.3.

GENERAL PROGRESS

The RD&D Permit was issued to the U.S. Department of Energy, Richland Operations Office and Westinghouse Hanford Company on May 4, 1994, with an effective date of June 6, 1994.

In compliance with permit condition II.C.3, this third quarterly progress report is submitted.

Current plans for testing covered by the RD&D Permit provide only for filtration testing at the Liquid Effluent Retention Facility (LERF). No other efforts covered by the RD&D Permit are planned for the LERF at this time. Additionally, the 1706-KE Pilot Plant construction/installation has been terminated. No efforts covered by the RD&D Permit are planned to be conducted at the 1706-KE Building, nor is dangerous waste subject to this RD&D Permit planned to be introduced into the 1706-KE Building.

The required third party inspection by a Registered Professional Engineer has been performed as required by the RD&D Permit I.E.10 for the backwashable filtration system installation at the LERF. Construction certification documents have been prepared and have been approved. The construction certification document was transmitted under a separate cover.

TESTS UNDERWAY/PERFORMED DURING THE QUARTER

The backwashable filtration system was activated at the LERF on March 8, 1995, and ran until March 12, 1995. On March 12, a power transformer providing support to the system failed causing the system to shut down. No fouling of the filtration membrane was detected during this four day operating period. The starting flow rate was approximately 4 gallons per minute. The backwash cycle did not require activation during this first test period because filter loading was so light. Samples of solution were taken and sent off for Laboratory analysis. The results of the sample analysis are not available at this time. A test report is being prepared per Attachment 2 of the RD&D permit and will be completed when these data become available.

The filtration system was activated again on March 29, 1995. The system operated for 12 hours followed by an automatic system shutdown due to failure of a tank level control switch. The filter did not require a backwash cycle during the 12-hour period. This test will also be included in a test report which is now being prepared.

The two test periods revealed no significant fouling of the filter membrane.

TESTS PROJECTED FOR NEXT QUARTER

The next test period is projected to begin in June 1995 and last for approximately one week.

TEST REPORTS COMPLETED DURING THE QUARTER

None